V-Shape
Beijing Anchorfree Technology Co.,Ltd.

V12 User Manual

Beijing Anchorfree Technology Co.,Ltd.

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Beijing Anchorfree Technology Co., Ltd. was established in 2003, which is a government-supported high-tech company. In 2008, we took part in China Chamber of International Commerce (CCOIC) and serve as an honorary member. Since its inception, the company has been adhering to the "integrity, pragmatic; innovative, progressive" business philosophy, insisting on "Professional, Exceptional" slogan, focusing on R & D, manufacturing, sales and service of non-invasive medical and cosmetic equipments. Meanwhile, we constantly improve the product quality, technical standards and service quality, always making the best efforts to provide better products and technical support for global buyers.

By nearly 10 years of hard work in the domestic market, the company won a good reputation and rapid development. At present, our products cover 7 series like CO2 fractional laser, mid-infrared 1550nm fractional laser, 808NM hair removal diode laser, IPL (intense pulsed light), RF (RF), E-light, water oxygen jet system, vacuum / cavitation / cryolipolysis system.etc. These totally about 50 models are exported to five continents in over 80 countries.

In 2007 we completed ISO9001 and ISO13485 international quality system certification as the first in China. With the efforts the vast majority of our products have been given medical CE certification; we have established a strong R & D center with nearly 30 people in R&D team. A number of our research results have filled the domestic blank and got patents, among which 4 Results got invention patents, 8 results got utility model patents.

Beijing Anchorfree actively promotes the international development strategy, and has established a close working relationship with many international well-known agents. We have set up overseas branches like Anchorfree (Japan) Co., Ltd., Anchorfree (Hong Kong) International Co., Ltd., BTF.etc. In future we will still increase international market efforts to expand and promote the progressive realization of branding, marketing, team, technology, management to meet the international standards.

Looking ahead, we will seize the opportunity to increase the product innovation ability, speed up the process of internationalization and achieve scale development of economical leaps. Anchorfree bounds to become internationally competitive, internationally renowned leading enterprise of medical and beauty equipments, to establish "Anchorfree" as an international brand, to achieve the dream of "repay to the community and serve for the customer" of Anchorfree people!

Telephone：0086-010-81504046 /4737 /4750/4683

Fax： 010-81502271

Web: www.ipl-btf.com

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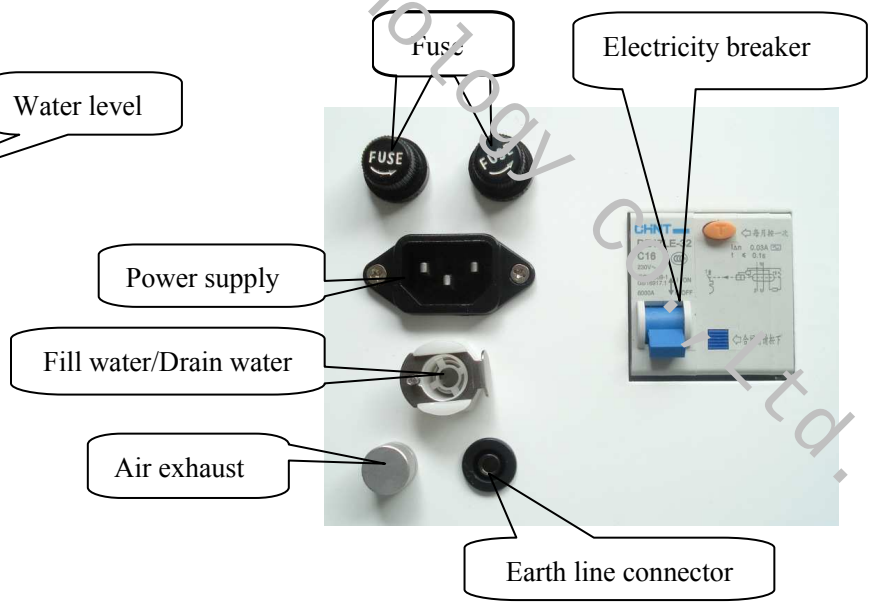
Chapter 1 Introduction

This chapter is a general illustration.



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1.1 Parts

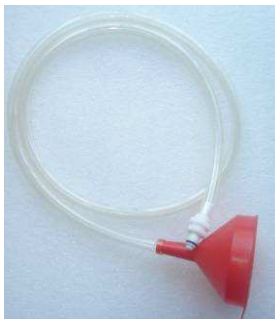
Host×1

168 handpiece×2

108 handpiece×2

Host output ×1

Stand×1



Funnel×1

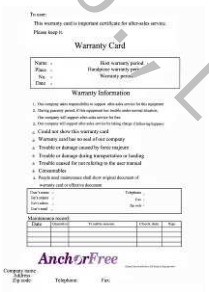
Earth line×1

Power line×1

Air exhaust with a hole ×1

Filter

User manual



Warranty card

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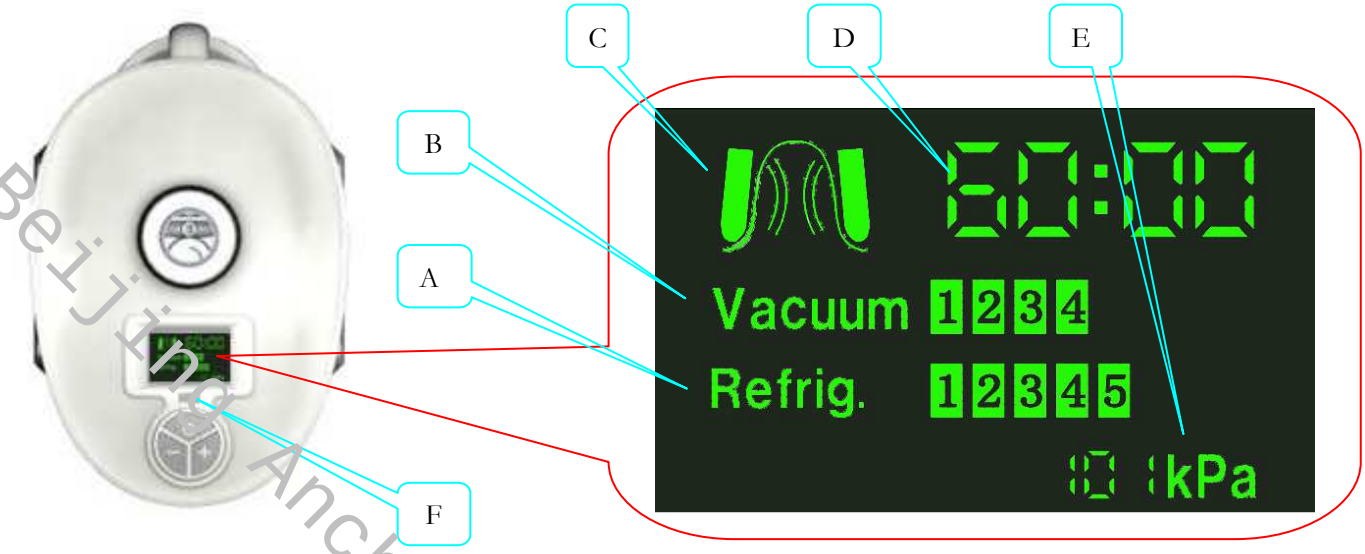
1.2 Handpiece

1.2.1 168 Handpiece



A：Refrigeration：7 levels;

B：Vacuum：8 levels;

C：Vacuum situation：Green-----it is ON; Black-----it is OFF;

D：Work time：Countdown;

E：Absolute value;

F：Pilot lamp：

If 168 handpiece connects with left output connector, left side of host screen is blue and pilot lamp of handpiece is blue;

If 168 handpiece connects with right output connector, right side of host screen is yellow and pilot lamp of handpiece shows yellow;

a) Press "-", "+" key to adjust vacuum；

b) After adjusting vacuum, press "◎" key to start vacuum；

c) You could also adjust vacuum on host screen；

d) You have to start refrigeration on host screen；

e) Press "◎" key to close refrigeration；

f) After you close refrigeration and handpiece's temperature goes to 8℃（pilot lamp on handpiece will flicker），press "◎" key to close vacuum（could also close vacuum on host screen）

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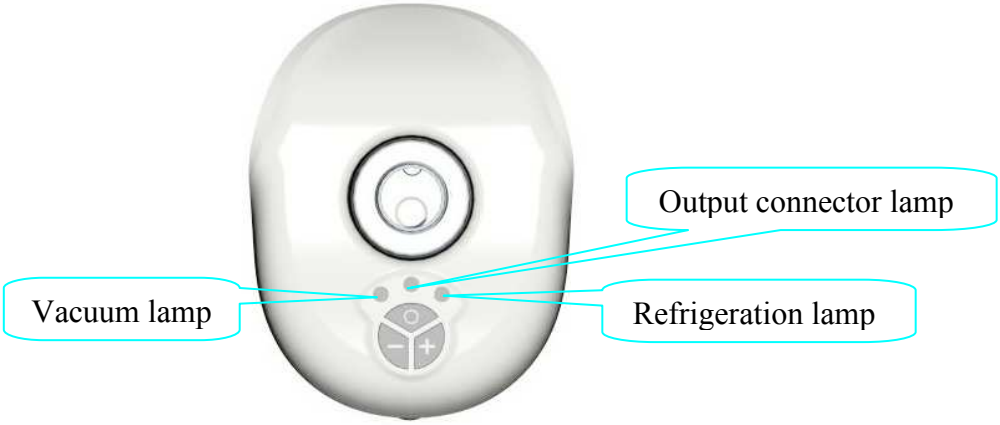
1.2.2 108 Handpiece



Vacuum lamp：Vacuum is ON------vacuum lamp is red;
Vacuum is OFF------vacuum lamp is off
Refrigeration lamp：Refrigeration is ON------refrigeration lamp is red;
Refrigeration is OFF------ refrigeration lamp is off
Output connector lamp：

- If 168 handpiece connects with left output connector, left side of host screen is blue and pilot lamp of handpiece is blue;
- If 168 handpiece connects with right output connector, right side of host screen is yellow and pilot lamp of handpiece shows yellow;

a) Press "-", "+" key to adjust vacuum;
b) After adjusting vacuum, press "◎" key to start vacuum;
c) You could also adjust vacuum on host screen;
d) You have to start refrigeration on host screen;
e) Press "◎" key to close refrigeration;
f) After you close refrigeration and handpiece's temperature goes to 8℃（pilot lamp on handpiece will flicker），press "◎" key to close vacuum（could also close vacuum on host screen）

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1.3 Technical Specifications

Items	Specifications
Screen	1． Host screen: 10.4″TFT Chromatic Touch Screen 2． 168 handpiece screen: 1.4″ LCD screen
Working mode	Continuous
Adjust scope	10min～90min
Negative pressure scope	1. Absolute value: 100kPa -20kPa； 2.Relative value: 0kPa -80kPa；
Vacuum levels	1～8, adjustable, the higher, the stronger
Refrigeration levels	1～7, adjustable, the higher, the stronger
Safety checking	Real time on line
Number of handpiece	4 handpiece (168 handpiece---2 ones; 108 handpiece---2 ones)
Treatment area of tips	168mmx60mm，108mmx45mm
Rated input power	750VA
Power supply	AC230V±10%，50Hz±1Hz/ AC110V±10%，60Hz±1Hz
Net weight	55kg
Physical dimension	570mm×490mm×1050mm
Host output's adjust scope	0-45^0 (forward)
Wireless IC card management system	

1.4 Parameters of Handpiece

Form 1 ： Parameters scope

Handpiece	Refrigeration *Level	Vacuum *Level	Work time *min
168 handpiece	1~7	1~8	10 ~90
108 handpiece	1~7	1~8	10 ~90

Form 2： Default parameter

Handpiece	Refrigeration *Level	Vacuum *Level	Work time *min
168 handpiece	3	3	60
108 handpiece	2	3	60

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Form 3 Treatment item

Handpiece	Treatment item
168 handpiece	Stomach，buttock，waist, leg
108 handpiece	Back，stomach，thigh, buttock , waist, chin, upper arm

1.5 Working Conditions

1） Environmental temperature of operation：10ºC—30ºC;

2） Environmental temperature for keeping the equipment：-20 ºC —50ºC;

3） Relative humidity：≤70%;

4） Air pressure：860hPa～1060hPa;

5) Environment request：Avoid direct radiation of intense light

Note:

1) If the temperature in the room is too low or the equipment has not been used for any days, you shall make the temperature of the whole system recover to 10 ºC or higher before starting it.

2) You shall not use this equipment in humid environment

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Chapter 2 Safety

This chapter shows safety measures needs to be considered when you use this equipment. The operators and maintenance person shall be familiar with the safety requirements and procedures when they use the equipment.

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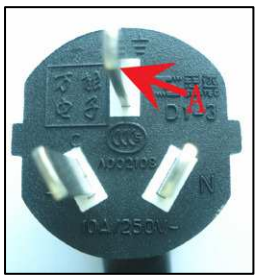
2.1 Optic Safety

1) Be sure that rated input voltage written on the label is coincident with the supply in the location;
2) The maintain process can only be carried out ten minutes after the power has been shut off and the electric line has been unplugged. Otherwise, there is danger to the personnel or the equipment;
3) There is dangerous high-voltage in the equipment. So no one is allowed to disassemble any parts of the machine except the technical personnel appointed by our company;
4) Good earthing is very important to operation safety. This equipment has good earthing by yellow and green wires in power line. (Picture A);
5) Power switch (Picture B) for turn on or turn off the equipment;
6) Emergency switch (Picture C): Press it while emergency to cut off electricity;
7) Electricity breaker (Picture D): When electricity is abnormal, it will be OFF to cut off electricity



Picture A

Picture B

Picture C

Picture D

2.2 Safety Signs

1） means earth line;

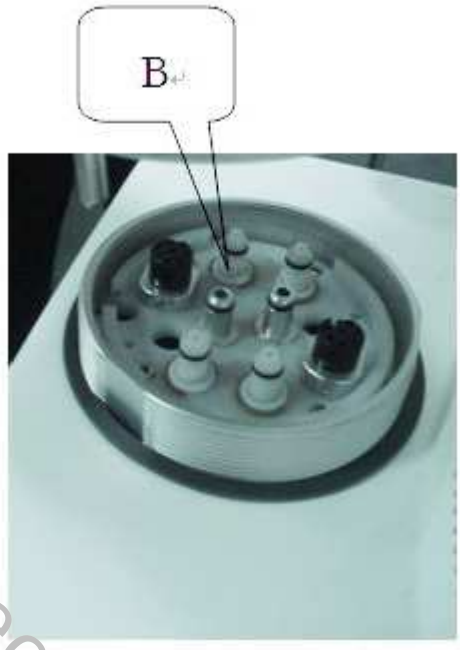
2）“AC230V 50Hz” or “ AC110V 60Hz” is power supply;

3） “FUSE 10A” or “FUSE 15A” is value of fuse

Chapter 3 Operation

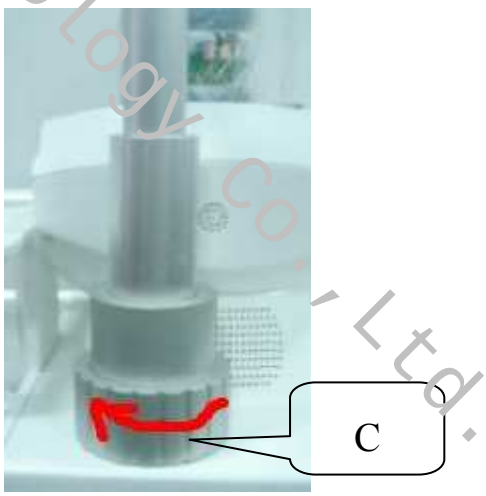
3.1 Install Host Output

Picture 1



Picture 2

Picture 3



Picture 4

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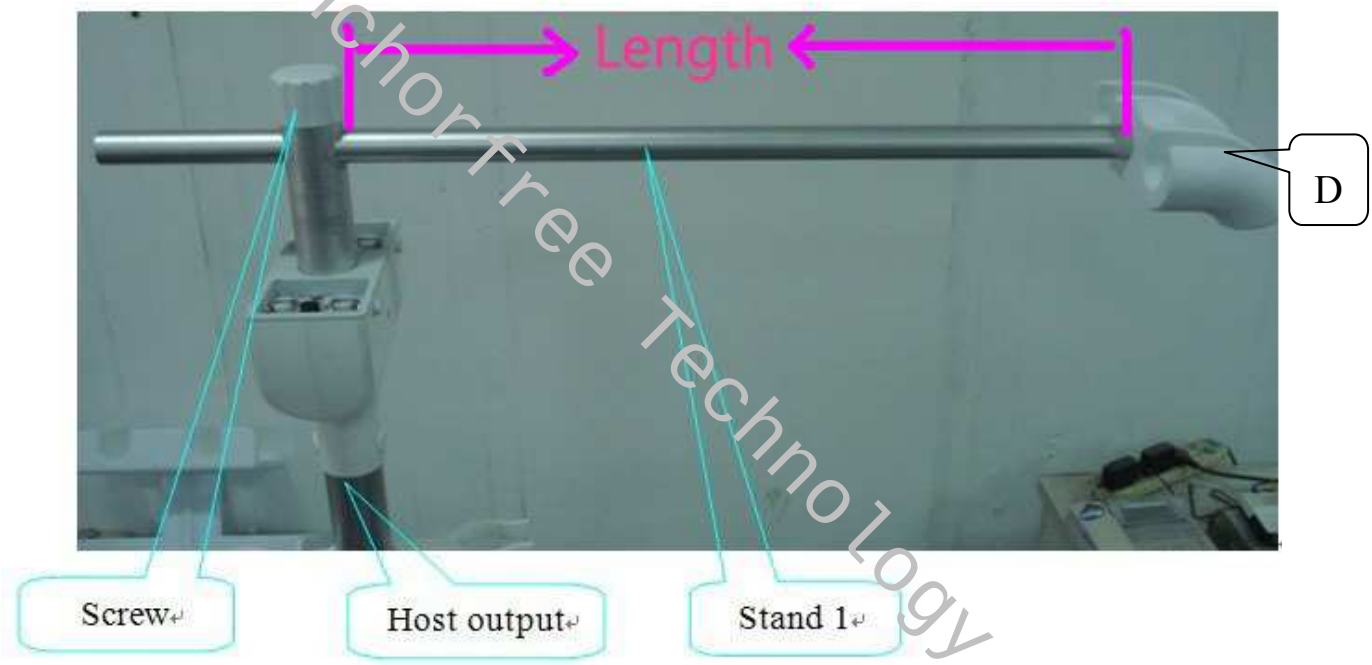
- A (Picture 1) is the host output;
- B (Picture 2) is in the equipment;
- Insert A into B (Picture 3);
- Screw C (Picture 4)

3.2 Disassemble Host Output

- First disassemble handpiece (refer to 3.4);
- Put handpiece in a safe place;
- Disassemble stand 1 (refer to 3.3);
- Loosen C (Picture 4);
- Pull out A (Picture 1);
- Normally we don't disassemble the host output and we disassemble it while checking equipment or transportation

3.3 Stand 1



Picture 5

Installation: (Picture 5)

Insert stand 1 into host output;

Normally, the length is 50cm;

Fix the screw

Adjustment: (Picture 5)

Normally we don't adjust stand 1;

If adjustment is needed, first take out the handpiece pipe from D and loosen screw;

Adjust stand 1;

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Fix screw;

Put handpiece pipe back into D

Disassemble: (Picture 5)

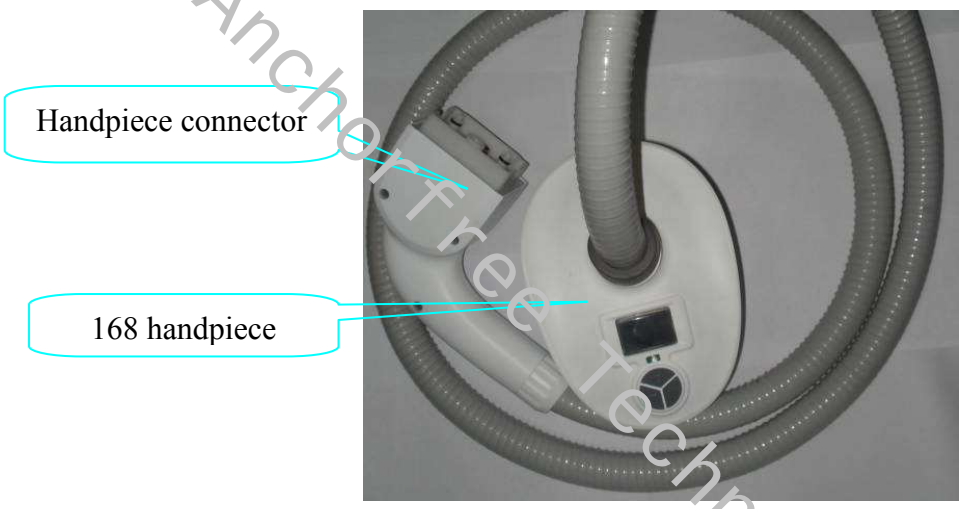
First disassemble handpiece (refer to 3.4);

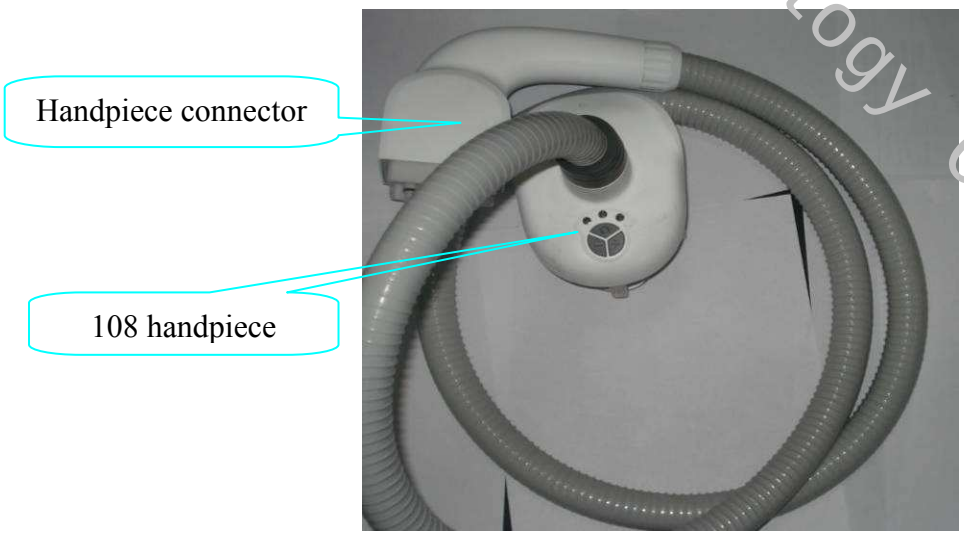
Put handpiece in a safe place;

Loosen screw;

Take out stand 1

3.4 Install Handpiece and Change Handpiece





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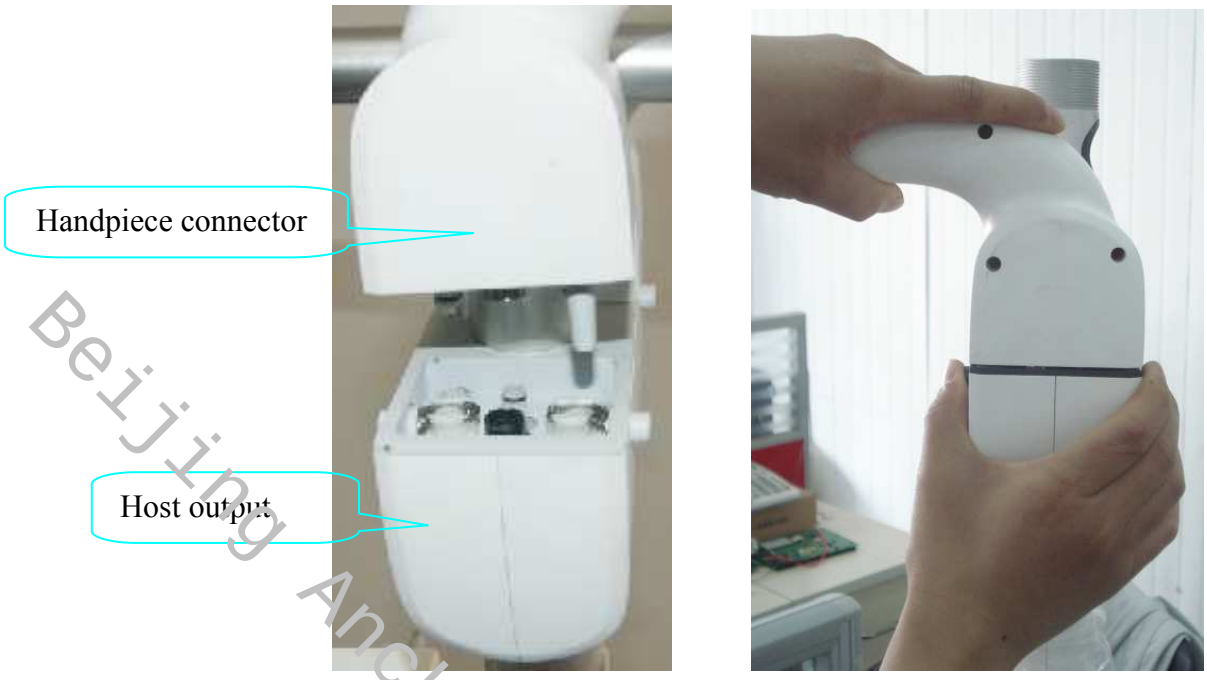
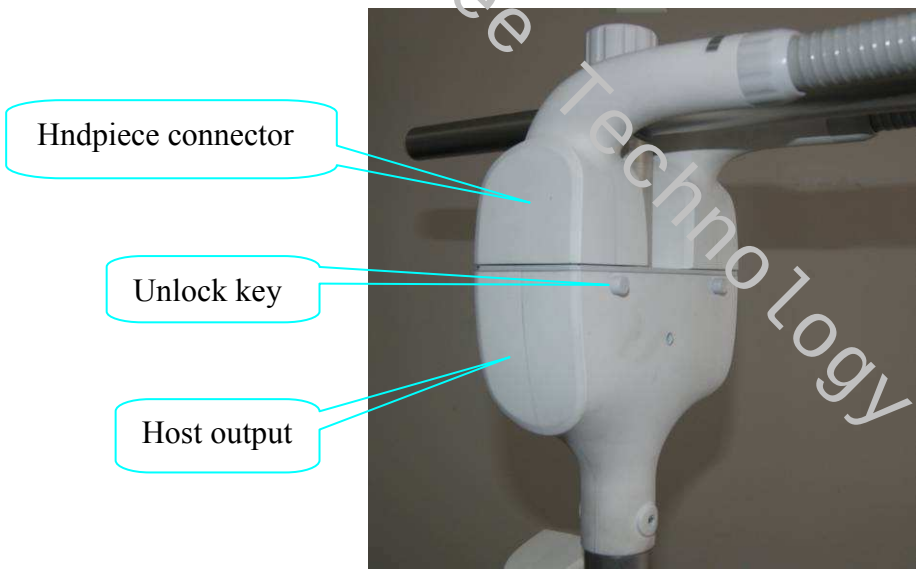


Picture 6



Picture 7

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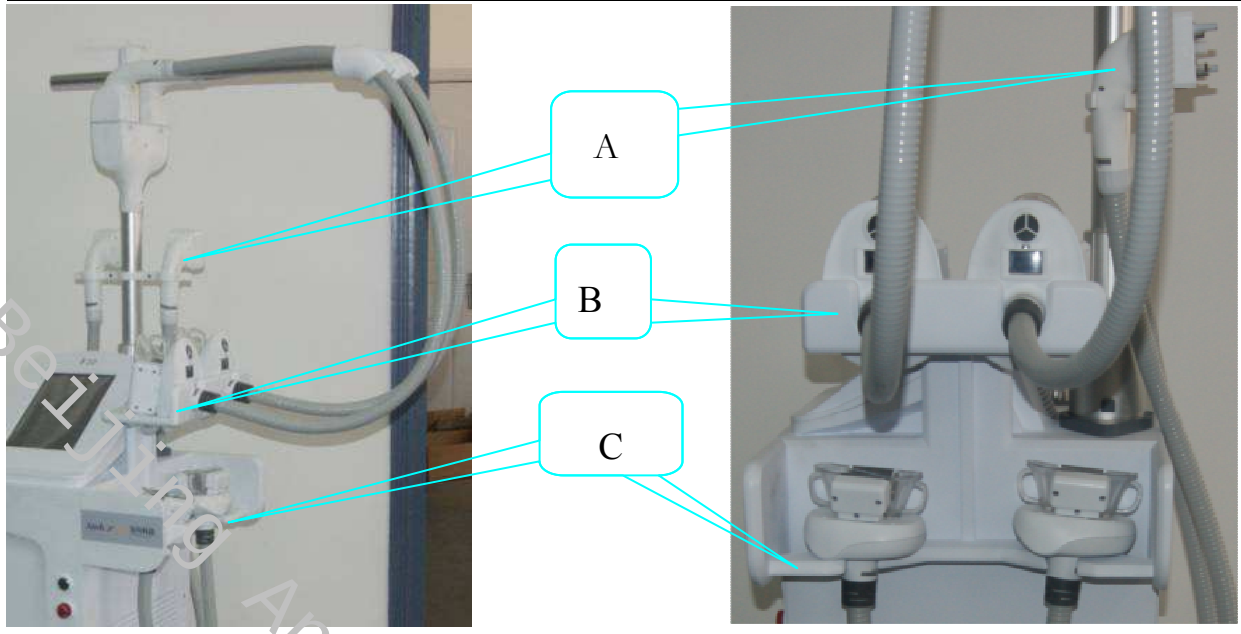

Picture 8

In Picture 8:

A is connector of standby handpiece (not working now);

B is handpiece stand 2, which is for working handpiece;

C is handpiece stand 3, which is for standby handpiece (not working now)

- Handpiece installation:

Insert working handpiece's connector into host output until you hear the sound (Picture 6);
Put working handpiece's pipe into D (Picture 5);
Put working handpiece on stand 2(B in Picture 8);
Place the standby handpiece on stand 3(C in Picture 8);
Place the standby handpiece's connector like A in picture 8

- Change handpiece:

Press the key (Picture 7), at the same time, pull out the handpiece connector;
Take out handpiece pipe from D (Picture 5);
Place the handpiece you just taken down in C (Picture 8) and put its connector on B in picture 8;
Insert working handpiece's connector into host output until you hear the sound (Picture 6);
Put working handpiece's pipe into D (Picture 5);
Put working handpiece on handpiece stand 2 (B in Picture 8);

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3.5 Install Earth Line

- Normally, you need not install the earth line;
- In the following situation, you have to install the earth line:

1. When you feel like needle hurt your skin during treatment;
2. There is no earth line in the power outlet;

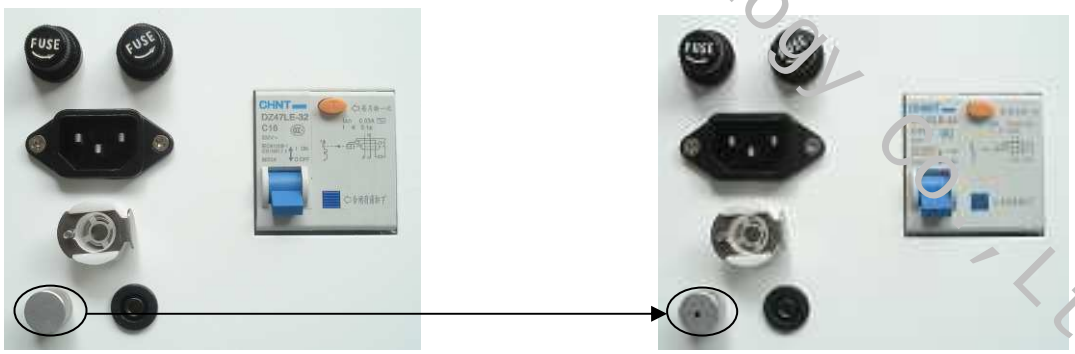
- Installation:

Before turning on the equipment, connect one side of the earth line with A (following picture) and connect the other side of the earth line to metal touching the earth (like water pipe, heater

3.6 Fill Water

Use purified water or water without hydronium. Strictly prohibit mineral water.

If you first use this equipment, please take the following steps to fill water:



Picture 9

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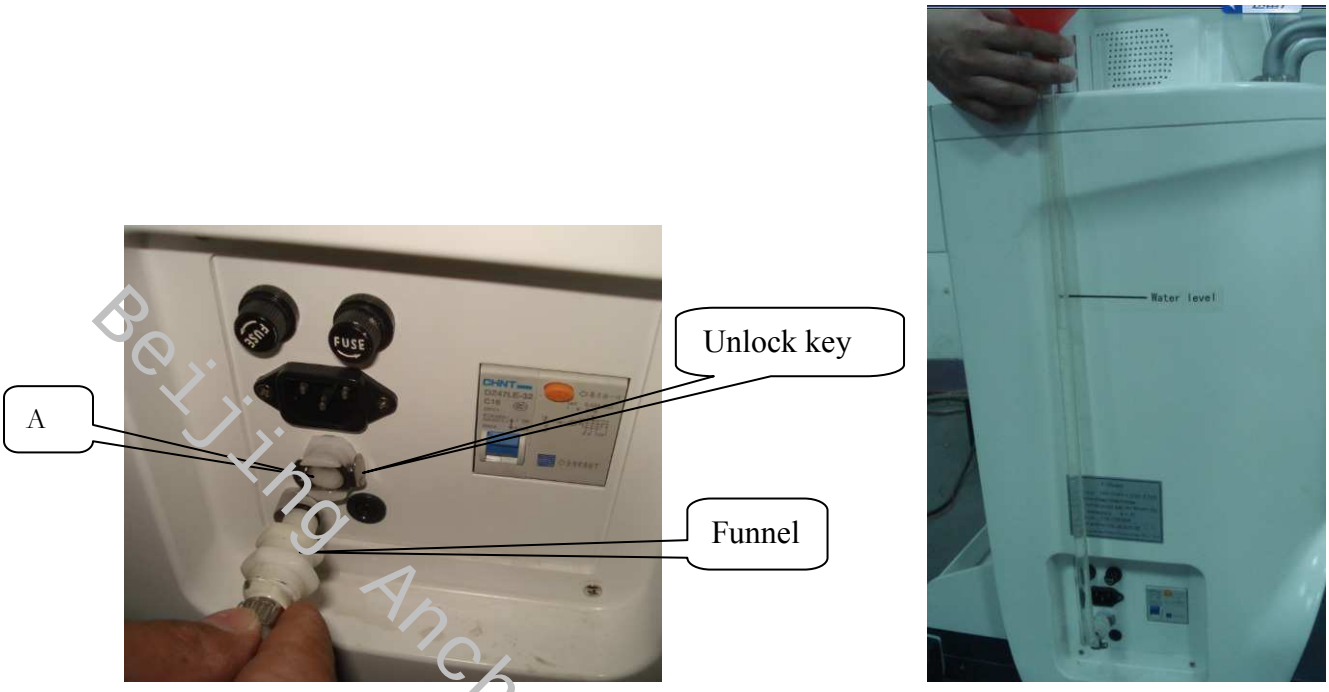
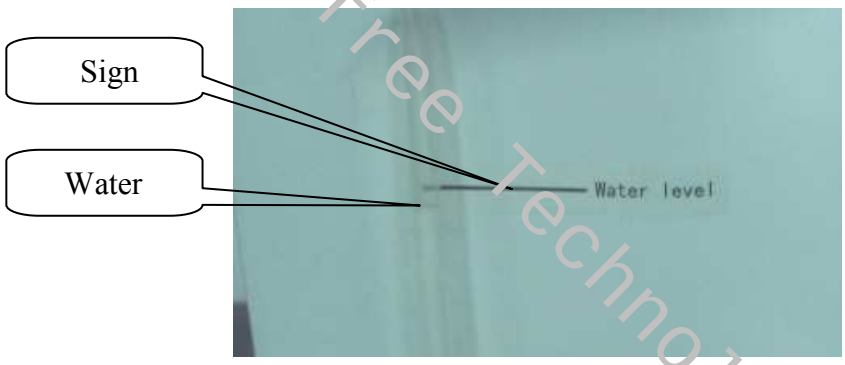


Picture 10



Picture 11

1) Use the cap with a hole for the air exhaust (Picture 9)
2) Prepare 2.5-3L water;
3) Insert funnel into A (Picture 10) until you hear the sound;
4) Fill water;
5) When water in the pipe gets the “Water level” sign (Picture 11), stop filling water;
6) Press unlock key (Picture 10) until you hear sound, you pull out the funnel;
7) Install the handpiece, start the equipment and wait for 2-3 minutes;
8) Turn off the equipment;
9) Insert funnel into A (Picture 10) until you hear the sound;
10) Fill water;
11) When water in the pipe gets the “Water level” sign (Picture 11), stop filling water;
12) Press unlock key (Picture 10) until you hear sound, you pull out the funnel;

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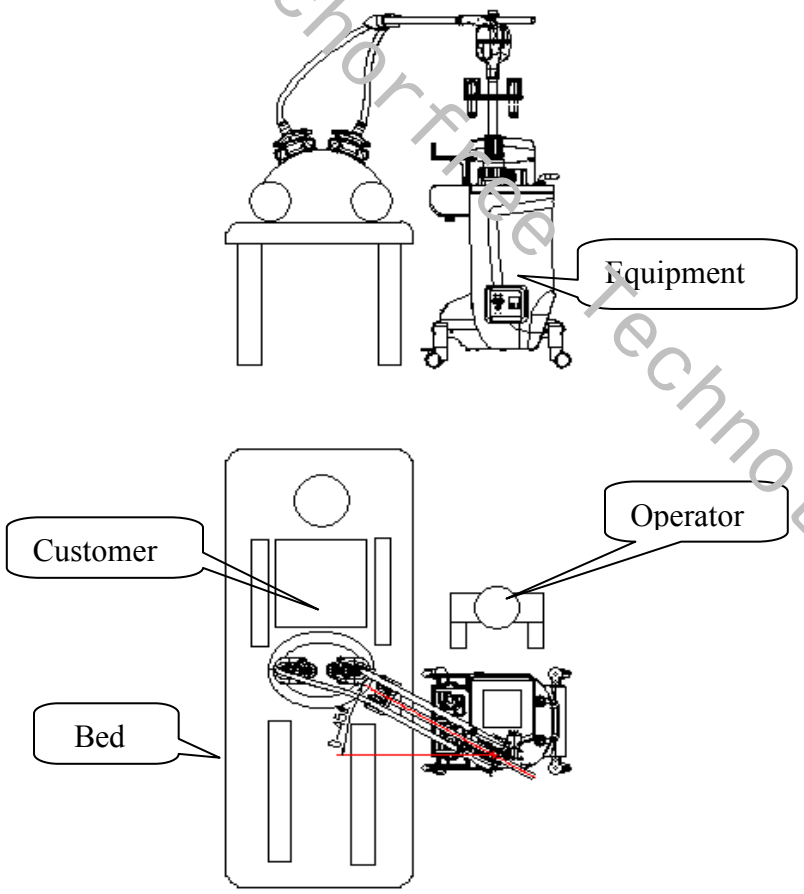
- **Normally, take the following steps to fill water:**

1) Use the cap with a hole for the air exhaust (Picture 9)
2) Prepare 2.5-3L water;
3) Insert funnel into A (Picture 10) until you hear the sound;
4) Fill water;
5) When water in the pipe gets the “Water level” sign (Picture 11), stop filling water;
6) Press unlock key (Picture 10) until you hear sound, you pull out the funnel;

3.7 Drain Water

1）Prepare a container for holding water;
2）Insert funnel into A (Picture 10) until you hear the sound;
3）Put the funnel head in the container until there is no water flowing;
4）Press unlock key (Picture 10) until you hear sound, you pull out the funnel;

3.8 Place the Equipment



Look at Picture 12:
Take treatment on stomach for example; Picture 12 shows the right place of customer, equipment, operator and the bed.
1）Customer lie down the bed and relax itself;
2）Place equipment on either side of the bed;
3) Stand 1is just above the stomach;
4) Operator faces to the screen;

Note:
If the length of handpiece pipe is not available, you can try:
1. Adjust stand 1;
2. Turn the angle of host output 0 ~ -45°forward

Picture 12

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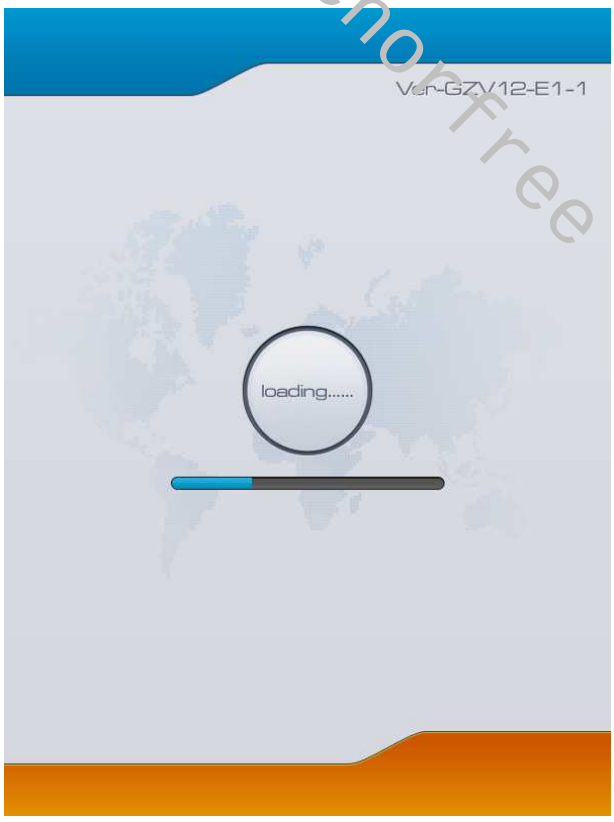
3.9 Start the Equipment

1) Install the handpiece;
2) Water is enough;
3) Connect power line;

4) Turn on electricity breaker（Push A upward）;
5) Emergency switch shall not be pressed down;
6) Press power switch;
7) System enters initialization interface (Picture 13);
8) Then system enters password interface (Picture 14);
   Original password is 123;
9) Input password and system enters main interface (Picture 15)



Picture 13

Picture 14

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3.10 Main Interface

Picture 15

Picture 16

Picture 17

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In Picture 15:

A：Left side refrigeration time;

B：Left side handpiece type：big handpiece is 168，small handpiece is 108;

C：Left side setting time：press "+""-" to adjust it, the scope is 10-90 minutes;

D：Left side vacuum level：press "+""-" to adjust it, the scope is 1-8;

E：Left side refrigeration level：press "+""-" to adjust it, the scope is 1-7;

F：Left side vacuum switch:

1) Before clinical treatment, press it to start vacuum;
2) After clinical treatment, first turn off refrigeration and wait until left side connected handpiece's temperature goes to 8℃ (pilot lamp on handpiece will flicker);
   Then press left side vacuum switch to turn off left side vacuum;

G：Left side refrigeration switch：

1) Before clinical treatment, first turn on vacuum switches on both sides of screen;
   Then turn on refrigeration;
2) After clinical treatment, press left side refrigeration switch to turn off refrigeration

H：Key for handpiece working mode:

1) Both handpiece (Picture 15);
2) Left handpiece（L）(Picture 16);
3) Right handpiece（R）(Picture 17)

I：Right side refrigeration time;

J：Right side handpiece type：big handpiece is 168，small handpiece is 108;

K：Right side setting time：press "+""-" to adjust it, the scope is 10-90 minutes;

L：Right side vacuum level：press "+""-" to adjust it, the scope is 1-8;

M：Right side refrigeration level：press "+""-" to adjust it, the scope is 1-7;

N：Right side vacuum switch:

1) Before clinical treatment, press it to start vacuum;
2) After clinical treatment, first turn off refrigeration and wait until right side connected handpiece's temperature goes to 8℃(pilot lamp on handpiece will flicker);
   Then press right side vacuum switch to turn off right side vacuum;

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O: Right side refrigeration switch：

1) Before clinical treatment, first turn on vacuum switches on both sides of screen; Then turn on refrigeration;
2) After clinical treatment, press right side refrigeration switch to turn off refrigeration

P：Error noting;

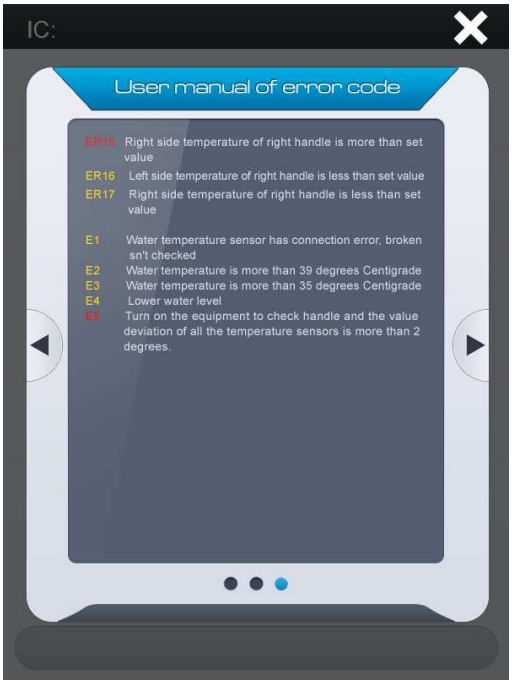
Press this part for long time to enter error introduction interfaces (Picture 18, Picture 19 and Picture 20);

IC:
User manual of error code
EL1 Left handle isn't on line
EL2 Left side has little water
EL3 Left handle's NO.1 MOS pipe broke current
EL4 Left handle's NO.2 MOS pipe broke current
EL5 Left handle's NO.1 MOS pipe short-circuited
EL6 Left handle's NO.2 MOS pipe short-circuited
EL7 Left handle's NO.1 temperature sensor has connection error, broken,isn't checked
EL8 Left handle's NO.2 temperature sensor has connection error, broken,isn't checked
EL9 The value deviation between NO.1 and NO.2 temperature sensors is more than 1.5 degrees
EL10 Left handle's NO.3 temperature sensor has connection error, broken,isn't checked
EL11 Left handle's NO.4 temperature sensor has connection error, broken,isn't checked
EL12 The value deviation between NO.3 and NO.4 temperature sensors is more than 1.5 degrees
EL13 Cooling power isn't connected
EL14 Left side temperature of left handle is more than set value
EL15 Right side temperature of left handle is more than set value
EL16 Left side temperature of left handle is less than set value

Picture 18

IC:
User manual of error code
EL17 Right side temperature of left handle is more than set value
ER1 Right handle isn't on line
ER2 Right handle's NO.1 MOS pipe broke current
ER3 Right handle's NO.2 MOS pipe broke current
ER4 Right handle's NO.1 MOS pipe short-circuited
ER5 Right handle's NO.2 MOS pipe short-circuited
ER6 Right handle's NO.1 temperature sensor has connection error, broken,isn't checked
ER7 Right handle's NO.2 temperature sensor has connection error, broken,isn't checked
ER8 Right handle's NO.1 temperature sensor has connection error, broken,isn't checked
ER9 Right handle's NO.2 temperature sensor has connection error, broken,isn't checked
ER10 The value deviation between NO.1 and NO.2 temperature sensors is more than 1.5 degrees
ER11 Right handle's NO.3 temperature sensor has connection error, broken,isn't checked
ER12 Right handle's NO.4 temperature sensor has connection error, broken,isn't checked
ER13 The value deviation between NO.3 and NO.4 temperature sensors is more than 1.5 degrees
ER14 Cooling power isn't connected

Picture 19


IC:
User manual of error code
ER15 Right side temperature of right handle is more than set value
ER16 Left side temperature of right handle is less than set value
ER17 Right side temperature of right handle is less than set value
E1 Water temperature sensor has connection error, broken sn't checked
E2 Water temperature is more than 39 degrees Centigrade
E3 Water temperature is more than 35 degrees Centigrade
E4 Lower water level
E5 Turn on the equipment to check handle and the value deviation of all the temperature sensors is more than 2 degrees.

Picture 20

3.11 Error Noting

Error noting interface contains 3 interfaces: Picture 18, Picture 19 and Picture 20;

Press to change the 3 interfaces;

Press to go back to main interface (Picture 15)

EL1	Left handle isn't on line
EL2	Left side has little water
EL3	Left handle's NO.1 MOS pipe broke current
EL4	Left handle's NO.2 MOS pipe broke current

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EL5	Left handle's NO.1 MOS pipe short-circuited
EL6	Left handle's NO.2 MOS pipe short-circuited
EL7	Left handle's NO.1 temperature sensor has connection error, broken, isn't checked
EL8	Left handle's NO.2 temperature sensor has connection error, broken, isn't checked
EL9	The value deviation between NO.1 and NO.2 temperature sensors is more than 1.5 degrees
EL10	Left handle's NO.3 temperature sensor has connection error, broken, isn't checked
EL11	Left handle's NO.4 temperature sensor has connection error, broken, isn't checked
EL12	The value deviation between NO.3 and NO.4 temperature sensors is more than 1.5 degrees
EL13	Cooling power isn't connected
EL14	Left side temperature of left handle is more than set value
EL15	Right side temperature of left handle is more than set value
EL16	Left side temperature of left handle is less than set value
EL17	Right side temperature of left handle is more than set value
ER1	Right handle isn't on line
ER2	Right side has little water
ER3	Right handle's NO.1 MOS pipe broke current
ER4	Right handle's NO.2 MOS pipe broke current
ER5	Right handle's NO.1 MOS pipe short-circuited
ER6	Right handle's NO.2 MOS pipe short-circuited
ER7	Right handle's NO.1 temperature sensor has connection error, broken, isn't checked
ER8	Right handle's NO.2 temperature sensor has connection error, broken, isn't checked
ER9	The value deviation between NO.1 and NO.2 temperature sensors is more than 1.5 degrees
ER10	Right handle's NO.3 temperature sensor has connection error, broken, isn't checked
ER11	Right handle's NO.4 temperature sensor has connection error, broken, isn't checked
ER12	The value deviation between NO.3 and NO.4 temperature sensors is more than 1.5 degrees
ER13	Cooling power isn't connected
ER14	Left side temperature of right handle is more than set value
ER15	Right side temperature of right handle is more than set value
ER16	Left side temperature of right handle is less than set value
ER17	Right side temperature of right handle is less than set value
E1	Water temperature sensor has connection error, broken ,isn't checked
E2	Water temperature is more than 39 degrees Centigrade
E3	Water temperature is more than 35 degrees Centigrade
E4	Lower water level
E5	Turn on the equipment to check handle and the value deviation of all the temperature sensors is more than 4 degrees.

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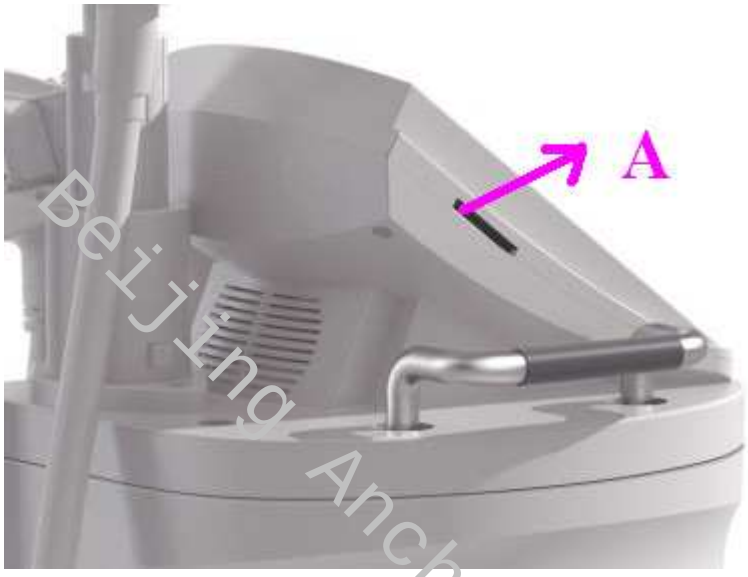
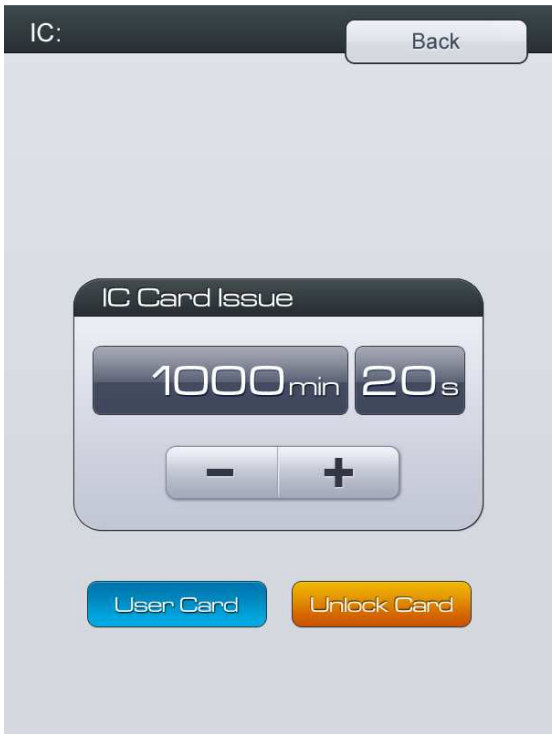
3.12 Wireless IC Card

Three kinds of cards: key card, user card and unlock card



Picture 21



Picture 22

To Issue User Card

1) Turn on the equipment, insert key card to A in Picture 21;
   System enters Picture 22;
2) Press “+” or “-” to set issued time;
   10 minutes for each press;
   100 minutes for each continual press;
   Adjusted scope is 0-99900 minutes
3) Insert blank card to A in Picture 21 and system issues user card automatically;
   Then system would note you “Issue OK!” or “Issue Error!”
   You can issue more user cards at the same time;
4) After issuing user card, press Back to enter Picture 22

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- **Issue Unlock Card**

1) Turn on the equipment, insert key card to A in Picture 21;
   System enters Picture 22;
2) Press

key to enter Picture 23;
3) Insert blank card to A in Picture 21 and system issues unlock card automatically;
   Then system would note you "Issue OK!" or "Issue Error!"
   You can issue more user cards at the same time;
4) After issuing user card, press

to enter Picture 22

Picture 23

- **Start IC Card Function**

Turn on the equipment, insert issued user card to A in Picture 21;
Equipment makes a sound and shows the left time in the user card;

- **Stop IC Card Function**

Turn on the equipment, insert issued user card to A in Picture 21;
Equipment makes a sound;
Now this equipment could be used without user card

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3.13 Make Use of Wireless IC Card

Example 1 (For agent)

1) The agent rents equipment to others and take charge according to time;
2) 14400 minutes=30 days×8 hours/day×60 minutes/hour
3) You agent could do like this：
   - Turn on the equipment, insert key card to A in Picture 21;
   - Then set time:14,400 minutes；
   - Insert blank card to A in Picture 21;
     After you hear the sound, the user card is issued；
   - Exit from Picture 22, insert user card to A in Picture 21. Give user card and equipment to customer（The agent keeps the key card）；
   - The user must insert user card into A in Picture 21 when he uses the equipment;
     If there is no time left, the equipment will lock automatically;
   - After user giving payment to agent, the agent would issue a user card with 14,400 minutes again and give it to user;
   - If user wants to buy the equipment, the agent could give key card to user after receiving payment.

Example 2 (For beauty salon)

1) The beauty salon takes charge by renting card, treatment course and treatment times;
2) 10 times/treatment course and 30 minutes/time;
   The beauty salon could take following measures to manage：
   - Turn on the equipment, insert key card to A in Picture 21;
   - Set time:300 minutes (10 times *30 minutes/time)；
   - Insert blank card to A in Picture 21;
     After you hear the sound, the user card is issued；
   - Exit from issuing interface (Picture 22);
   - Give user card to customer（The beauty salon keeps the key card）；
   - While using the equipment, customer insert his user card into A in Picture 21;
     Set time: 30 minutes;
     After 30 minutes, the equipment stops working and makes two sounds;
   - After treatment, customer takes away his user card

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3.14 Password

Picture 24

1） Turn on the equipment and system enters Picture 14;

2） In Picture 14, press for a long time to enter Picture 24;

3） In Picture 24, press the first and input original password;

Press the second and input new password;

Press the third and input new password again

Press

4) Picture 25 shows password set successfully;

Picture 26 means original password is wrong;

Picture 27 means new password is wrong;

5) If you don't want to change password, press to go back

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Picture 25

Picture 26

Picture 27

3.15 Treatment Procedure

Take double 168 handpiece for example (customer lies on bed, time is 90 minutes)：

1) Install the handpiece;
2） Fill water;
3） Place the equipment;
4） Turn on the equipment;
5） Input password(original password is 123);
6） Press key to set double handpiece working mode;
7） Make sure that the double handpiece are 168 handpieces;
8） Set 90 minutes on both sides of screen;
9） Adjust vacuum to 3 levels on both sides of screen;
10) Adjust refrigeration to 7 levels on both sides of screen;
11) Let customer lie on the bed;
12) Paste one piece of cloth on left side of customer’s stomach and another one on right side of customer’s stomach;(Picture 28)
13) Press vacuum switches of both sides of screen;
Try vacuum level from low to high;
14) Put one 168 handpiece on the middle of left cloth;
When skin is adsorbed totally, you release your hand (Picture 29);
If skin is not adsorbed properly, you quickly stop vacuum by pressing key on handpiece or pressing vacuum switch on equipment;
15) Put another 168 handpiece on the middle of right cloth;
When skin is adsorbed totally, you release your hand (Picture 29);
16) Use one line to tie the two handpiece (Picture 30);

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Reduce 1~2 vacuum levels;

17) Make sure your customer do not feel discomfort and press refrigeration switches on both sides of screen;

18) When handpiece's temperature gets to certain value, vacuum level could not be adjusted;
If you want to adjust vacuum, you have to press refrigeration switch and wait until handpiece's temperature gets to 8 degrees Centigrade (pilot lamp on handpiece will flicker);
Then you can adjust vacuum level;
Note:
1） When refrigeration gets to certain temperature, vacuum must not be stopped;
2） When refrigeration gets to certain temperature, you must not shake the handpiece;

19) When 90 minutes is finished, refrigeration will stop automatically;
Wait until handpiece's temperature goes to 8 degrees Centigrade (pilot lamp on handpiece will flicker);
Lamp flicker means you can stop vacuum by hand;
Press key of handpiece connected to the orange screen;
Turn off vacuum switch of orange screen (right side of screen);
Lightly take down handpiece of orange screen and put it on B in Picture 8;
Press key of handpiece connected to the blue screen (left side of screen);
Turn off vacuum switch of blue screen;
Lightly take down handpiece of blue screen and put it on B in Picture 8;

20) Turn off vacuum switch on both sides of screen;

21) Turn off the equipment;

22) Take out the filter and install a new one (Refer to 4.3 in Chapter 4);
Note: You have to install a new filter before each treatment.

23) Use clean cloth with 30℃ water to clean the handpiece
(**Note: Don't let water flow into the air pipe!)**

Picture 28

Picture 29

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Picture 30

3.16 Cryolipolysis Cloth

- Function of cryolipolysis cloth:

1. To separate skin and metal of handpiece;
2. Liquid of cloth can transfer heat

Specification	Size	Relative handpiece
1520	15cmX20cm	Smaller handpiece（HV08）
3020	30cmX20cm	Bigger handpiece（HV07）

- The cryolipolysis cloth can only be used one time;
- You can order the cryolipolysis cloth from our company;
- Procedure:

P1 P2 P3 P4 P5

P6 P7 P8 P9 P10

P1: Find the small tearing of the package;
P2: Tear the package;
P3: Take out one piece of cryolipolysis cloth;

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P4: Unfold the cryolipolysis cloth;
P5: Tear off the membrane;
P6: We use the cloth;
P7: Unfold the cloth;
P8: Put the cloth on the skin to be treated;
P9: The cloth is finished;
P10: The handpiece adsorbs the cloth.

3.7 Turn off the Equipment

Press power switch on the equipment;
Pull down the electricity breaker's switch (on the back);
Take down power line

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Chapter 4 Maintenance and Troubleshooting

Note: Ten minutes after turning off the equipment, you take down the power line to maintain the equipment. Do not leave the equipment with the cover board opened up and no attendance. Otherwise, it can do harm to human being or the equipment itself.

4.1 Add Water and Change Water in Time

1) Fill water once per month (distilled water or water without ion);
Refer to 3.6 in Chapter 3;
2) Change water once every 3 months;
Before changing water, turn off the equipment;
Drain water (Refer to 3.7 in Chapter 3);
Fill water (Refer to 3.6 in Chapter 3)

4.2 Change Filter of Equipment

Changing filter of equipment shall be done by the professional person of our company.
If this equipment has been used for half of one year or vacuum value changes to be smaller, changing filter of equipment shall be done.

Procedure:

- ✓ Take down the two standby handpiece (C in Picture 8);
- ✓ Take down the board (A in Picture 31);

- ✓ Take down B (in Picture 32);
- ✓ Install filters of equipment (Picture 33);
- ✓ C in Picture 35 is air pipe of air pressure sensor;
  Take down the white cap (Picture 35);
  If there is water in the air pipe, dry the water;
- ✓ Install the white cap again (Picture 36);
- ✓ Screw down B (Picture 34);
- ✓ Install the board (A in Picture 31);
- ✓ Place the handpiece on the stands (refer to Picture 8)

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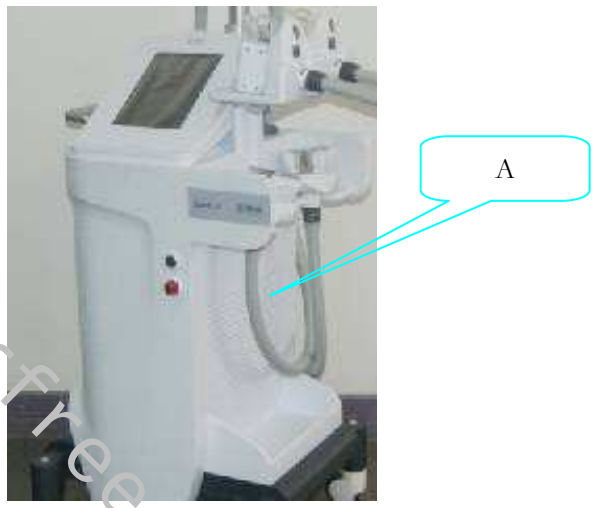
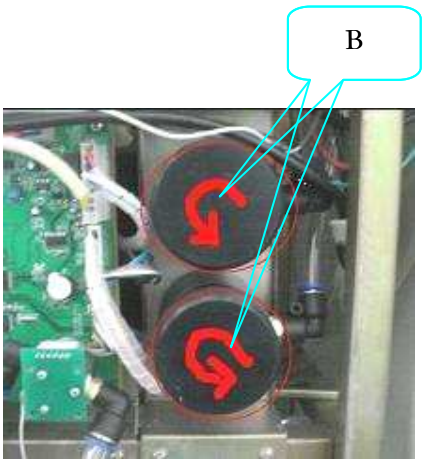
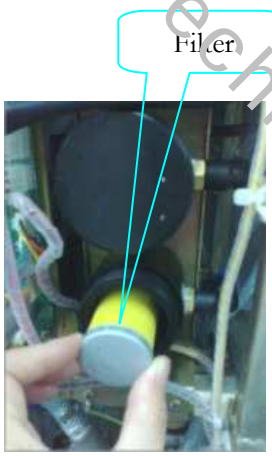


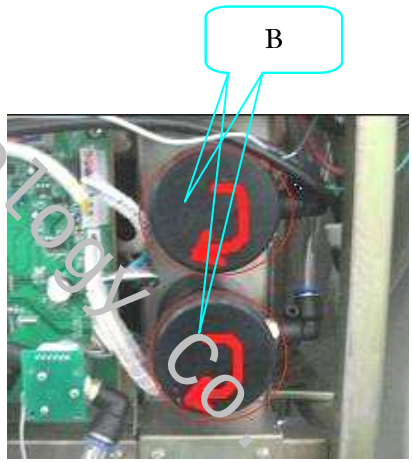
Picture 31



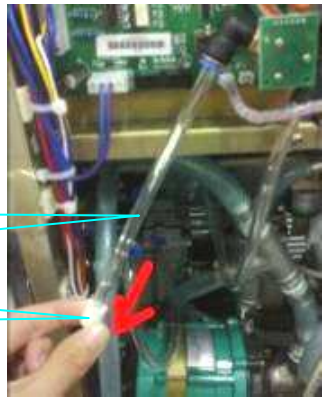
Picture 32



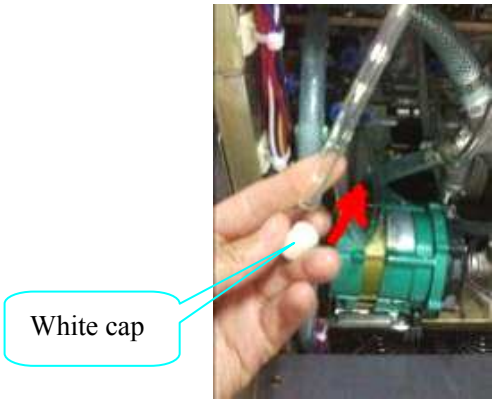
Picture 33



Picture 34



Picture 35



Picture 36

4.3 Change Filter of Handpiece

After each treatment, change for a new filter;

Procedure:

1) Take out the filter from handpiece (Picture 37);

2) Replace for a new filter;

Picture 37

4.4 Move the Equipment

1) On the floor, hold the handle to move the equipment (Picture 38);

2) On the ladder, two men lift the equipment by holding the board (Picture 39);

You must not lift the equipment by holding the handle;

Picture 38

Picture 39

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4.5 Troubleshooting

Form 1:

Trouble	Reason	Troubleshooting
Equipment could not start	Power switch has trouble	Change power switch and contact with our company
	Power line isn't connected well	Connect it well
	Fuse is broken	Change the fuse
	Control panel has trouble	Change control panel and contact with our company
Key on handpiece has trouble	Control system has trouble	Turn off power switch, turn on it again; If trouble is still there, contact with our company
Touch screen has no reaction	Touch screen has trouble	Contact with our company
Touch screen has no showing	Touch screen has trouble	Contact with our company
There is no vacuum or less vacuum	Air pump has trouble	Contact with our company
	Handpiece leak air	Contact with our company

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Form 2:

Code	Introduction	Troubleshooting
EL1	Left handle isn't on line	Check the lines in handpiece
EL2	Left side has little water	Check the water pipe
EL3	Left handle's NO.1 MOS pipe broke current	Change handpiece panel
EL4	Left handle's NO.2 MOS pipe broke current	Change handpiece panel
EL5	Left handle's NO.1 MOS pipe short-circuited	Change handpiece panel
EL6	Left handle's NO.2 MOS pipe short-circuited	Change handpiece panel

EL7	Left handle's NO.1 temperature sensor has connection error, broken, isn't checked	Change TL1 temperature sensor
EL8	Left handle's NO.2 temperature sensor has connection error, broken, isn't checked	Change TL2 temperature sensor
EL9	The value deviation between NO.1 and NO.2 temperature sensors is more than 1.5 degrees	Change TL1 temperature sensor and TL2 temperature sensor
EL10	Left handle's NO.3 temperature sensor has connection error, broken, isn't checked	Change TL3 temperature sensor
EL11	Left handle's NO.4 temperature sensor has connection error, broken, isn't checked	Change TL4 temperature sensor
EL12	The value deviation between NO.3 and NO.4 temperature sensors is more than 1.5 degrees	Change TL3 temperature sensor and TL4 temperature sensor
EL13	Cooling power isn't connected	Check the refrigeration power supply’s lines
EL14	Left side temperature of left handle is more than set value	Change handpiece panel
EL15	Right side temperature of left handle is more than set value	Change handpiece panel
EL16	Left side temperature of left handle is less than set value	Change the refrigeration chip of left side
EL17	Right side temperature of left handle is more than set value	Change the refrigeration chip of right side
ER1	Right handle isn't on line	Check the lines in handpiece
ER2	Right side has little water	Check the water pipe
ER3	Right handle's NO.1 MOS pipe broke current	Change handpiece panel
ER4	Right handle's NO.2 MOS pipe broke current	Change handpiece panel
ER5	Right handle's NO.1 MOS pipe short-circuited	Change handpiece panel
ER6	Right handle's NO.2 MOS pipe short-circuited	Change handpiece panel
ER7	Right handle's NO.1 temperature sensor has connection error, broken, isn't checked	Change TL1 temperature sensor
ER8	Right handle's NO.2 temperature sensor has connection error, broken, isn't checked	Change TL2 temperature sensor
ER9	The value deviation between NO.1 and NO.2 temperature sensors is more than 1.5 degrees	Change TL1 temperature sensor and TL2 temperature sensor
ER10	Right handle's NO.3 temperature sensor has connection error, broken, isn't checked	Change TL3 temperature sensor
ER11	Right handle's NO.4 temperature sensor has connection error, broken, isn't checked	Change TL4 temperature sensor
ER12	The value deviation between NO.3 and NO.4 temperature sensors is more than 1.5 degrees	Change TL3 temperature sensor and TL4 temperature sensor

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ER13	Cooling power isn't connected	Check the refrigeration power supply’ s lines
ER14	Left side temperature of right handle is more than set value	Change handpiece panel
ER15	Right side temperature of right handle is more than set value	Change handpiece panel
ER16	Left side temperature of right handle is less than set value	Change the refrigeration chip of left side
ER17	Right side temperature of right handle is less than set value	Change the refrigeration chip of right side
E1	Water temperature sensor has connection error, broken ,isn't checked	Change water temperature sensor
E2	Water temperature is more than 39 degrees Centigrade	Standby and wait until water temperature is cool
E3	Water temperature is more than 35 degrees Centigrade	Standby and wait until water temperature is cool
E4	Lower water level	Fill water
E5	Turn on the equipment to check handle and the value deviation of all the temperature sensors is more than 4 degrees.	Install handpiece→ turn on the equipment→10 minutes later turn off the equipment→ turn on the equipment again

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Chapter 5 Clinical Guide

5.1 Working Mechanism

Triglyceride of fat will be converted for the solid (crystalline) at low temperatures; Solid triglyceride aging in advance; Normal metabolism makes aging solid triglyceride go out body; Thus human body feels light.

This equipment's main functions are vacuum absorption and refrigeration slimming function.

1. Vacuum absorbs fat into handpiece;

2. Chips with refrigeration function convert freezing to absorbed fat;

3.60~90 minutes later, the absorbed fat becomes cool, freezing and changes into solid triglyceride;

4. The solid triglyceride aging in 2 months and normal metabolism makes aging solid triglyceride go out body; Thus fat layer becomes thin

5.2 Applications

Removal localized stubborn fat

5.3 Customer Contraindications

The following customers shall not accept the treatment of this equipment.

1) Patient with liver diseases;
2) The skin to treated with has metal or some supports;
3) Patient with skin diseases or any people with cancer;
4) Other serious diseases, like heart disease or diabetes;
5) Women with menstrual, women with pregnancy or women just giving birth;
6) Patient with history of cold stimulation

5.4 Treatment Course

60 minutes for each treatment; 30 days between two treatments;

One treatment course contains continuous 5 treatments

5.5 Customer's Feeling during Treatment

- ✧ Normally, customer will feel micro-numbness, micro-cold;
- ✧ After 2 hours, feeling of cold will disappear;
- ✧ Some customer's skin appears light mark after treatment and the mark will disappear in 2 hours;

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✧ Some customer will feel a little abdominal pain after treatment and this will last for 1~2 days

5.6 Treatment Skills

1) Pay attention to customer's comfort before starting vacuum and refrigeration;
2) After skin is absorbed, if customer feels painful, you shall reduce vacuum level（Start vacuum→ adjust to high vacuum level→ When skin is absorbed firmly, reduce vacuum level until customer feels comfortable）;
3) To make customer feel comfortable, after adjusting vacuum and refrigeration, use a line to tie the two working handpiece (Picture 30);
4) Since the treatment time is long, the customer could read book, listen to music, make a telephone call;
5) Before treatment, tell customer not to walk during treatment;
   Operator shall pay attention to customer all the time;
6) During treatment, you have to turn off refrigeration firstly and then turn off vacuum

5.7 Treatment Part

Stomach, thigh, leg, waist, Upper arm, chin and other part with fat

5.8 Notes after Treatment

1) Use water with 15℃～30℃ to wash treated skin in 2 hours after treatment;
2) After washing treated skin, deposit wet warm towel on the treated skin

Note: Don't use water more than 30℃ to wash skin.

5.9 Suggestion for Beauty Salon

Beauty salon shall use IC Card to get a long lasting effect.

5.10 Questions and Answers

1. Customer: What is this equipment used for?

Beautician:

This equipment is "refrigeration" slimming equipment.

It combines "vacuum" and "cryolipolysis" to remove stubborn fat.

2. Customer: What's treatment course of this equipment?

Beautician:

60 minutes for each treatment; 30 days between two treatments;

One treatment course contains continuous 5 treatments.

3. Customer: Is this equipment dangerous? What's feeling during treatment?

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Beautician:

1) This equipment adopts cryolipolysis technology. So triglyceride of fat will be converted for the solid (crystalline) at low temperatures; Solid triglyceride aging in advance; Normal metabolism makes aging solid triglyceride go out body; At last, customer gets slimming effect. So this equipment isn't dangerous, instead, it is the safest, most effective and the right weight losing method;
2) Different customer has different reaction to refrigeration;
During treatment or after treatment, some customer may feel a little discomfort;
Some customer may feel a little abdominal pain and this feeling will disappear in 1~2 days.

4. Customer: What's the change after treatment of this equipment?

Beautician:

At first, treated skin has no evident change and customer feels numb in 2~3 days;

After treatment of 2~3 months, the treated skin's fat is removed evidently.

5. Customer: How to take care of skin after treatment?

Beautician:

Use water with 15℃～30℃ to wash treated skin in 2 hours after treatment;

Then deposit wet warm towel on the treated skin for 10~20 minutes.

6. Customer: Why can't women with menstrual accept the treatment?

Beautician: Normally, women with menstrual are sensitive to pain and weak for cold

7. Customer: Can anyone operate this equipment?

Beautician:

It's easy to operate this equipment. So anyone professionally trained can operate this equipment.

8. Customer: What's the working mechanism of this equipment?

Beautician:

This equipment adopts cryolipolysis technology. So triglyceride of fat will be converted for the solid (crystalline) at low temperatures; Solid triglyceride aging in advance; Normal metabolism makes aging solid triglyceride go out body; At last, customer gets slimming effect.

9. Customer: What's the main application of this equipment?

Beautician: Remove localized stubborn fat.

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